

United States
Department of the Interior
Geological Survey

**High Resolution Uniboom Seismic Reflection Profiles Collected
August 26 Through September 19, 1978 on the Chukchi Sea**

By
Arthur Grantz and Jonathan Greenberg

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This report is preliminary and has not been edited or reviewed for conformity with Geological Survey standards or nomenclature.

The U.S. Geological Survey conducted a cruise in the Chukchi Sea from the *R/V Samuel P. Lee* during August 26 through September 19, 1978, as part of a resource assessment of the outer continental shelf northwest of Alaska. The study area lies between 157° West and approximately 176° West longitude and from 67° North to approximately 73.5° North latitude.

Single-channel high-resolution (Uniboom¹) continuous seismic reflection profiles were collected along 26 tracklines with a total trackline distance of approximately 4,800 km. the Uniboom¹ hull transducers had a power range of .6 to 1.2 kJ. The recording system had a high cut filter range of 1,100 to 1,500 hz. Data were recorded onto paper rolls.

Navigation during the survey was done by the scientific staff using a Marconi¹ integrated satellite/doppler navigation system. Navigation information was digitized and then computer plotted onto a polar stereographic projection at a scale of 1:1,000,000.

Microfilm copies of the high-resolution (Uniboom¹) continuous seismic reflection profiles can be purchased from the NOAA, National Geophysical Data Center, Boulder, CO, 80305. The data were filmed at the Pacific Arctic Branch of Marine Geology in Menlo Park, CA 94025.

¹ Use of trade names within this report is for purposes of identification only, and does not constitute endorsement by the U.S. Geological Survey.